## **IN THE CLAIMS:**

- 1. (CURRENTLY AMENDED)——1. A method of operating a switch for frames in a
- 2 computer network, comprising:
- receiving a frame (the received frame) at a port of said switch, said received
- 4 frame containing one or more indicia of frame type designation;
- deriving a virtual local area network (derived VLAN) value in response to said
- one or more indicia of frame type designation;
- accessing a forwarding data base with said derived VLAN value to determine a
- 8 destination address; and,
- forwarding, in response to said derived VLAN value, said received frame to an
- output port for transmission to the destination.
- 2. (ORIGINAL) The method of claim 1 further comprising, said forwarding step for-
- 2 warding in response to said derived VLAN value and said destination.
- 3. (ORIGINAL) The method of claim 1 wherein said indicia of frame type designation
- 2 further comprises: a protocol type.
- 4. (ORIGINAL) The method of claim 1 wherein said indicia of frame type designation
- 2 further comprises: a subnet value.

- 5. (ORIGINAL) The method of claim 1 wherein said indicia of frame type designation
- further comprises: a virtual local area network established in said computer network.
- 6. (ORIGINAL) The method of claim 1 wherein said indicia of frame type designation
- 2 further comprises: an IP source address.
- 7. (ORIGINAL) The method of claim 1 wherein said indicia of frame type designation
- further comprises: an index value associated with a port at which said received frame was
- 3 received.

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- 8. (ORIGINAL) The method of claim 1 further comprising:
- deriving a MAC address from said derived VLAN value and forwarding said received
- frame to a port for transmission to a destination having said MAC address.
  - 9. (ORIGINAL) A switch to forward frames in a computer network, comprising:
- a port to receive a frame (the received frame), said received frame containing one
- or more indicia of frame type designation;
- a parsing engine to derive a virtual local area network (derived VLAN) value in
- 5 response to said one or more indicia of frame type designation;
- a forwarding data base having said derived VLAN value as input and a destina-
- 7 tion address as output; and,
- an output port to transmit said received frame, in response to said derived VLAN
- 9 value, for transmission to said destination address.

- 1 10. (ORIGINAL) The apparatus as in claim 9 further comprising:
- a forwarding engine for forwarding said received frame in response to said derived
- 3 VLAN value and said destination address.
- 1 11. (ORIGINAL) A computer readable media containing instructions for the practice of
- the method of claim 1.
- 1 12. (CURRENTLY AMENDED) Electromagnetic signals travelling traveling on a com-
- 2 puter network, said electromagnetic signals carrying information to practice the method
- of claim 1.
- 1 13. (ORIGINAL) A method of operating a switch for frames in a computer network
- 2 comprising:
- using one or more indicia of frame type designation found in the received frame
- 4 to derive a virtual local area network (derived VLAN) value;
- 5 using the derived VLAN value in making forwarding decisions.
- 1 14. (ORIGINAL) The method of claim 13 further comprising:
- 2 controlling broadcast domains in the computer network by forwarding in response to the
- 3 derived VLAN value.
- 1 15. (ORIGINAL) The method of claim 13 further comprising:
- 2 using an indicia of the receiving port in constructing the derived VLAN value.

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- 16. (ORIGINAL) A computer readable media containing instructions for the practice of
- the method of claim 13.
- 1 17. (CURRENTLY AMENDED) Electromagnetic signals travelling traveling on a com-
- puter network, said electromagnetic signals carrying information to practice the method
- of claim 13.